



Attorney Docket No.: 25436/2462
Date of Deposit: May 25, 2004

SEQUENCE_Stratagene-2462.txt
SEQUENCE LISTING

<110> Stratagene California
Braman, Jeffrey
Carstens, Carsten-Peter
Novoradovskaya, Natalia
Bagga, Rajesh
Basehore, Lee Scott

<120> Compositions and Methods for Protein Isolation

<130> 25436/2462

<140> US 10/712,137
<141> 2003-11-13

<160> 32

<170> PatentIn version 3.2

<210> 1
<211> 17
<212> PRT
<213> Bos taurus

<400> 1

Lys Ile Gln Ala Ser Phe Arg Gly His Ile Thr Arg Lys Lys Leu Lys
1 5 10 15

Gly

<210> 2
<211> 28
<212> PRT
<213> Artificial sequence

<220>
<223> calmodulin-dependent protein kinase I (CMK1) AA 294-318

<400> 2

Ser Glu Gln Ile Lys Lys Asn Phe Ala Lys Ser Lys Trp Lys Gln Ala
1 5 10 15

Phe Asn Ala Thr Ala Val Val Arg His Met Arg Lys
20 25

<210> 3
<211> 20
<212> PRT
<213> Artificial sequence

<220>
<223> calmodulin-dependent protein kinase II (CMKII) AA 290-309

<400> 3

SEQUENCE_Stratagene-2462.txt

Leu Lys Lys Phe Asn Ala Arg Arg Lys Leu Lys Gly Ala Ile Leu Thr
1 5 10 15

Thr Met Leu Ala
20

<210> 4
<211> 16
<212> PRT
<213> Homo sapiens

<400> 4

Trp Ile Ala Arg Leu Arg His Ile Lys Arg Leu Arg Gln Arg Ile Cys
1 5 10 15

<210> 5
<211> 260
<212> DNA
<213> Artificial sequence

<220>
<223> DNA sequence coding CBP/SBP tandem affinity tags fused to the N-terminus of the bait protein

<400> 5
gcggccgcca ccatgaagcg acgatggaaa aagaatttca tagccgtctc agcagccaac 60
cgctttaaga aaatctcatc ctccggggca ctttggaaagcg gtagcggtag catggacgag 120
aagaccacccg gctggcgaaaa cggccacgtg gtggaggggcc tggccggcga gctggagcag 180
ctgcgggcca ggctggagca ccaccctcag ggccagcggg agccctccgg cggctgcaag 240
ctggggcgcccc gggcgatcc 260

<210> 6
<211> 78
<212> PRT
<213> Artificial sequence

<220>
<223> CBP/SBP tandem affinity tags fused to the N-terminus of the bait protein

<400> 6

Met Lys Arg Arg Trp Lys Lys Asn Phe Ile Ala Val Ser Ala Ala Asn
1 5 10 15

Arg Phe Lys Lys Ile Ser Ser Ser Gly Ala Leu Gly Ser Gly Ser Gly
20 25 30

Ser Met Asp Glu Lys Thr Thr Gly Trp Arg Gly Gly His Val Val Glu
35 40 45

SEQUENCE_Stratagene-2462.txt

Gly Leu Ala Gly Glu Leu Glu Gln Leu Arg Ala Arg Leu Glu His His
50 55 60

Pro Gln Gly Gln Arg Glu Pro Ser Gly Gly Cys Lys Leu Gly
65 70 75

<210> 7
<211> 254
<212> DNA
<213> Artificial sequence

<220>
<223> DNA sequence coding CBP/SBP tandem affinity tags fused to the C-terminus of the bait protein

<400> 7
ctcgaggaa gcggtagcgg taccatggac gagaagacca ccggctggcg gggcggccac 60
gtggtggagg gcctggccgg cgagctggag cagctgcggg ccaggctgga gcaccaccct 120
cagggccagc gggagccctc cggcggctgc aagctgggct ccggaaagcg acgatggaaa 180
aagaattca tagccgtctc agcagccaac cgcttaaga aaatctcatc ctccggggca 240
ctttagggcc cgac 254

<210> 8
<211> 79
<212> PRT
<213> Artificial sequence

<220>
<223> CBP/SBP tandem affinity tag fused to the C-terminus of the bait protein

<400> 8

Gly Ser Gly Ser Gly Ser Met Asp Glu Lys Thr Thr Gly Trp Arg Gly
1 5 10 15

Gly His Val Val Glu Gly Leu Ala Gly Glu Leu Glu Gln Leu Arg Ala
20 25 30

Arg Leu Glu His His Pro Gln Gly Gln Arg Glu Pro Ser Gly Gly Cys
35 40 45

Lys Leu Gly Ser Gly Lys Arg Arg Trp Lys Lys Asn Phe Ile Ala Val
50 55 60

Ser Ala Ala Asn Arg Phe Lys Lys Ile Ser Ser Ser Gly Ala Leu
65 70 75

<210> 9
<211> 101
<212> PRT

SEQUENCE_Stratagene-2462.txt

<213> Artificial sequence

<220>

<223> SBP sequence (SB1)

<400> 9

Met Asp Glu Lys Thr His Cys Thr Ile Ser Met Asn Gly Ala Val Pro
1 5 10 15

Leu Val Pro His His His Pro Gln Gly Asp Pro Leu Arg Leu Leu His
20 25 30

Arg Pro Gln Pro Ala Leu Leu Val Arg His Pro Gln Gly Asp Leu Val
35 40 45

Ala Leu Val Glu His His Glu Gly Val Asp Arg Gly Leu Val Ala Leu
50 55 60

Pro Glu Leu His Ala Glu Glu Leu Gly Glu Pro Val Gly Asp Leu Val
65 70 75 80

Gln Gly Pro Val Glu Gln Val Gln Gly Val Val Asp Ala Leu Val Trp
85 90 95

Arg Leu Pro Pro Ser
100

<210> 10

<211> 101

<212> PRT

<213> Artificial sequence

<220>

<223> SBP sequence (SB2)

<400> 10

Met Asp Glu Lys Thr His Cys Phe His Pro Gly Asp His Leu Val Arg
1 5 10 15

Leu Val Glu Glu Leu Gln Ala Leu Ala Glu Gly Leu Gln Arg Gln Gly
20 25 30

Gly Arg Gln Pro His Arg Leu Pro Arg Arg Arg Pro His His Leu Gln
35 40 45

Leu Leu Leu Asp Glu Ala His Pro Gln Ala Gly Pro Leu Arg Glu Arg
50 55 60

Ala His Gln Val Asp Gly Arg Leu Leu Leu Gln His His Pro Gln Gly
65 70 75 80

SEQUENCE_Stratagene-2462.txt

Asp Arg Leu Leu Gln Gln Pro Gln Asp His Pro Leu Glu Leu Val Trp
85 90 95

Arg Leu Pro Pro Ser
100

<210> 11
<211> 101
<212> PRT
<213> Artificial sequence

<220>
<223> SBP sequence (SB3)

<400> 11

Met Thr Arg Arg Pro Thr Ala Ser Ser Ser Cys Val Arg His Leu
1 5 10 15

Leu Leu Arg Gln Gly Glu His Gly His Gln Ala Leu Glu Asp Arg Asp
20 25 30

Lys Ala Arg His Val Arg Leu Val Glu Gly Asp Val Glu Val Leu Gly
35 40 45

Gly Leu Asp Arg Leu Ala Arg Ala Arg His Glu Ala Leu His Pro Gln
50 55 60

Ala Gly Leu Val His Leu Pro Leu His Gly Gly Asp Leu Gly Gly His
65 70 75 80

Leu Arg Leu Val Leu Glu Ala His Pro Gln Gly Asp Arg Leu Gly Leu
85 90 95

Ala Val His His His
100

<210> 12
<211> 102
<212> PRT
<213> Artificial sequence

<220>
<223> SBP sequence (SB4)

<400> 12

Met Asp Glu Lys Thr His Trp Gly Ile Ser Thr Trp Arg Gly Glu Pro
1 5 10 15

Leu Leu His His Pro Gln Ala Gly Arg Leu Pro Leu Asp Arg Arg Arg
Page 5

SEQUENCE_Stratagene-2462.txt

20

25

30

Ala Arg His Arg Arg Ile Leu Gly Ala Glu Pro Gly Gly Val Asp His
 35 40 45

Gly Leu Arg Leu Glu Leu Leu Asp Asp His Arg Pro Leu Val Pro Asp
 50 55 60

His His Pro Gln Arg Gly Pro Leu Gln Arg Gly Asp Leu Pro Gln Val
 65 70 75 80

Val Pro Leu Val Arg Leu Arg His Ala His Val Leu Gly Leu Gly Leu
 85 90 95

Ala Ala Ala Thr Ile Thr
 100

<210> 13

<211> 102

<212> PRT

<213> Artificial sequence

<220>

<223> SBP sequence (SB5)

<400> 13

Met Asp Glu Lys Thr His Trp Val Asn Val Tyr His Pro Gln Gly Asp
 1 5 10 15

Leu Leu Val Arg Gly His Gly His Asp Val Glu Ala Leu His Asp Gln
 20 25 30

Gly Leu His Gln Leu Asp Leu Leu Val Gly Pro Pro Pro Glu Val Val
 35 40 45

Arg Ala Leu Arg Gly Glu Val Leu Gly Gly Leu Arg Arg Leu Val Pro
 50 55 60

Leu Asp His Pro Gln Gly Glu Ala Leu Asp Gln Ala Arg Gln Arg Pro
 65 70 75 80

Gln His Leu Leu Glu Leu His His Arg Ala Leu Pro Pro Ala Leu Val
 85 90 95

Trp Arg Leu Pro Pro Ser
 100

<210> 14

<211> 102

SEQUENCE_Stratagene-2462.txt

<212> PRT
<213> Artificial sequence

<220>
<223> SBP sequence (SB6)

<400> 14

Met Asp Glu Lys Thr His Trp Leu Asn Asn Phe Glu Glu Leu Leu Ala
1 5 10 15

Arg Leu Asp Gly Leu Arg Glu Gly Glu Asp His Pro Leu Val Leu Arg
20 25 30

His His Pro Gln Gly Asp Gly Leu Leu Asp Gln Pro Leu Gly Arg His
35 40 45

Arg Ala Leu Asp Gly Glu Val Arg Glu Gly Asp Arg Pro Leu Asp Gln
50 55 60

Gly Gly Glu Glu Asp Leu Gly Ala Leu Val Asp Asp Asp Gly Glu Val
65 70 75 80

Leu Asp Gly Leu Val His Val Gly Val His Val His Asp Pro Leu Val
85 90 95

Cys Gly Cys His His His
100

<210> 15
<211> 101
<212> PRT
<213> Artificial sequence

<220>
<223> SBP sequence (SB7)

<400> 15

Met Asp Glu Lys Thr His Trp Phe Gly Thr Leu Asn Ser Phe Pro Thr
1 5 10 15

His Trp Met Ser Ala Val Gly Asn Gly Lys Ile Asp Cys Ser Phe Asn
20 25 30

Met Asn Leu Ser Leu Asn His Trp Leu Ser Ser Gly His Pro Asp Gly
35 40 45

Ala Leu Asp Asp Gln Leu His Pro Gln Gly Asp Ala Leu Val Gly Arg
50 55 60

Asp Asp Gly Val Val Gln Ala Leu Arg Leu Glu Gly Gln His Gln His
Page 7

SEQUENCE_Stratagene-2462.txt

65

70

75

80

Arg Arg Leu Ala Gln Arg Arg Ala Asp Arg His Arg Gln Leu Val Trp
85 90 95

Arg Leu Pro Pro Ser
100

<210> 16
<211> 102
<212> PRT
<213> Artificial sequence

<220>
<223> SBP sequence (SB8)

<400> 16

Met Asp Glu Lys Thr His Cys Thr Ile Glu Leu Asn Phe Ser Phe Thr
1 5 10 15

His Trp Lys Leu His His Pro Gln Gly Asp Ala Leu Leu Asp Asp
20 25 30

Gly Val Arg Pro His His Pro Leu Ala Asp Glu Gly Gly Leu Asp
35 40 45

Gln Gly Leu Gly His Arg Arg Gly Val Val Ala Glu Arg Leu Ala Arg
50 55 60

Arg Asp Pro Glu Val Leu Glu Gly Leu Val Glu Arg His Arg Gly Leu
65 70 75 80

Val Pro Arg Leu Arg His Gly Gly Glu Arg His Ala Glu Pro Leu Val
85 90 95

Trp Arg Leu Pro Pro Ser
100

<210> 17
<211> 102
<212> PRT
<213> Artificial sequence

<220>
<223> SBP sequence (SB9)

<400> 17

Met Asp Glu Lys Thr His Cys Asn Thr Gly Leu Tyr Asp Gly Ala Ala
1 5 10 15

SEQUENCE_Stratagene-2462.txt

Asp Cys Phe Asn Glu Leu Asn Lys Asp Val Ala Pro Leu Val Glu Gly
20 25 30

Arg His Asp Leu Val Glu Gly Leu Leu Leu Glu Arg His Pro Gln Gly
35 40 45

Asp Pro Leu Val Ala His Arg Gln Leu Val His His Pro Leu Leu Gly
50 55 60

Arg Gly Glu Arg His Arg Arg Ala Leu Val Pro Gln Gln Glu His Gln
65 70 75 80

Pro His Arg Leu Gln Pro Val Val Asp Leu Gly Arg Arg Arg Leu Val
85 90 95

Trp Arg Leu Pro Pro Ser
100

<210> 18

<211> 103

<212> PRT

<213> Artificial sequence

<220>

<223> SBP sequence (SB10)

<400> 18

Met Asp Glu Lys Thr His Trp His Glu Arg Ala Gln Glu Leu Val Gly
1 5 10 15

Gly Leu Leu Leu His Asp His Pro Gln Arg Leu Leu Leu Glu Pro Arg
20 25 30

Gly Pro Arg Pro Leu Arg Gly Leu Val His Glu Arg Gly His Gln Pro
35 40 45

Gln Pro Leu Ala Gly Arg Val Glu Glu Ala Asp Gly Gly Leu Leu Arg
50 55 60

Asp Gly Gly Glu Leu Glu Pro Leu Val Arg Glu Gly Glu Asp His
65 70 75 80

Leu Glu Pro Leu Asp Asp Glu Leu Asp Ala Gly Pro Arg Gly Leu Val
85 90 95

Trp Arg Leu Pro His His His
100

<210> 19

SEQUENCE_Stratagene-2462.txt

<211> 102

<212> PRT

<213> Artificial sequence

<220>

<223> SBP sequence (SB11)

<400> 19

Met Asp Glu Lys Thr His Trp His Glu Arg Val His His Leu Ala Asp
1 5 10 15

Gly Leu Glu Gln His Pro Gln Gly Gln Arg Arg Pro Leu Val Glu Arg
20 25 30

His Arg Gln Val Pro Arg Gly Leu Val Arg Glu Leu Gln His Glu Gly
35 40 45

Leu Pro Leu Glu His Pro Ala Gly Val His Val Ile Arg Leu His Gln
50 55 60

Gly Asp Asp Arg Asp Val Asp Gly Leu Val Asp Gly His Gly Arg Asp
65 70 75 80

Val Arg Gly Leu Glu Arg Glu Val Gly Asp Gly Pro His Arg Leu Val
85 90 95

Trp Arg Leu Pro Pro Ser
100

<210> 20

<211> 101

<212> PRT

<213> Artificial sequence

<220>

<223> SBP sequence (SB12)

<400> 20

Met Asp Lys Asp Pro Leu Leu Glu Glu Leu Glu Glu Leu Arg Glu Arg
1 5 10 15

Leu Val His His Pro Gln Gly Gly Leu Leu Pro Leu Arg Gly Gln Val
20 25 30

Gly His Asp Ala Glu Arg Leu Gly Ala Glu Val Asp Asp Leu Arg Gly
35 40 45

Gly Leu Leu Asp Glu Pro Gln Arg Ala Val Ala Gly Leu His His Val
50 55 60

SEQUENCE_Stratagene-2462.txt
Pro His Arg Val Gly Gln Arg Leu Val His Glu Val Arg Glu Leu Asp
65 70 75 80

Glu Gly Leu Leu Asp Gln Arg Asp Asp Leu Arg Gln Arg Leu Val Trp
85 90 95

Arg Leu Pro Pro Ser
100

<210> 21
<211> 102
<212> PRT
<213> Artificial sequence

<220>
<223> SBP sequence (SB13)

<400> 21

Met Glu Arg Glu Asp Pro Leu Asp Glu Gln Leu Arg Glu Leu Arg Glu
1 5 10 15

Ala Leu Val Asp His Pro Gln Gly Gly Ala Gln Ala Leu His Arg His
20 25 30

Asp Gly Gly Glu His Val Pro Leu Arg Arg Val Gln His Arg Leu Gln
35 40 45

Pro Gly Leu Gln His His Leu Glu Pro Gln Pro Leu Gly Leu Leu Gly
50 55 60

Glu Leu Gln Ala Arg Leu Gln Pro Leu Ala Gly Glu His Glu Gly Asp
65 70 75 80

Gly Ala Gly Leu Gln Arg Val Pro Gly His Gln Gly Arg Arg Leu Val
85 90 95

Trp Arg Leu Pro Pro Ser
100

<210> 22
<211> 101
<212> PRT
<213> Artificial sequence

<220>
<223> SBP sequence (SB14)

<400> 22

Met Asp Glu Lys Thr His Arg Thr Leu Ser Val Ser Leu Ser Phe Asn
1 5 10 15

SEQUENCE_Stratagene-2462.txt

Asp Trp Leu Gly Gln Thr Lys Ala Cys Trp Arg Leu Val Glu Gly Leu
20 25 30

His Gly His Pro Gln Gly Leu Val Arg Glu His Glu Val Asp Val Leu
35 40 45

Pro Leu Ala Glu Glu Val Gln Gln Val Val Gly Gly Leu Ala Asp Gly
50 55 60

Val Glu Gln Pro Gly Gly Leu Leu His Arg Ala Gln Arg Val Asp
65 70 75 80

His Pro Leu Pro Asp His Ala Gly Gln Val Leu Gly Arg Leu Val Trp
85 90 95

Arg Leu Pro Pro Ser
100

<210> 23

<211> 101

<212> PRT

<213> Artificial sequence

<220>

<223> SBP sequence (SB15)

<400> 23

Met Asp Glu Lys Thr His Trp Leu Glu Asp Leu Lys Gly Val Leu Lys
1 5 10 15

Asp Cys Leu Lys Asp Leu Met Asp Phe Thr Lys Asp Cys Arg Ser Pro
20 25 30

Arg Val Gln Pro Gln Pro Leu Leu His His Asp Arg Gly Glu Pro Val
35 40 45

Pro Leu Leu Arg Glu Ala Gly Arg Asp Leu Gly Gly Leu Gly Pro Arg
50 55 60

Ala Pro Arg Gln Ala Arg Pro Leu His His Gly Arg His Asp Leu His
65 70 75 80

Glu Pro Leu Val Leu Gln Asp His Pro Gln Gly Gly Pro Leu Val Cys
85 90 95

Gly Cys His His His
100

SEQUENCE_Stratagene-2462.txt

<210> 24
<211> 102
<212> PRT
<213> Artificial sequence

<220>
<223> SBP sequence (SB16)

<400> 24

Met Asp Glu Lys Thr His Trp Val Leu Gln Leu His Pro Gln Gly Asp
1 5 10 15

Arg Leu Gly Pro Arg His Gly Gly Asp Asp Val Arg Leu Val Gly Gln
20 25 30

Gly Glu Gly Val Leu Glu Gly Leu Asp Gly Arg Pro Arg Arg Arg Arg
35 40 45

His Arg Leu Pro Arg Glu Asp Glu His Arg Val Arg Ala Leu Val Asp
50 55 60

Gln Val Arg Asp Leu Ala Glu Arg Leu Val Glu Glu Val Asp Gly Gly
65 70 75 80

Val Glu Ala Leu Arg His Leu Gly Leu Pro Gln Asp Glu Pro Arg Ser
85 90 95

Gly Gly Cys His His His
100

<210> 25
<211> 102
<212> PRT
<213> Artificial sequence

<220>
<223> SBP sequence (SB17)

<400> 25

Met Asp Glu Lys Thr His Trp Val Gly Asp Leu Gln Glu Pro Leu Gly
1 5 10 15

Pro Leu His Gly Gly Val Gly Glu Val Pro Gly Gly Leu Val Leu Arg
20 25 30

His His Pro Gln Arg Asp Arg Leu Val Asp Gly Val Gly Pro His Gly
35 40 45

Arg Ala Leu Ala Arg Arg Pro His Arg Val Val Glu Gly Leu His His
50 55 60

SEQUENCE_Stratagene-2462.txt

Leu Leu Gln Arg Gly Gly Glu Arg Leu Pro Pro Asp Gly Pro Arg Gln
65 70 75 80

Leu Gly Leu Leu Gly Gly Glu Leu Asp Arg Ala Asp Pro Ala Leu Val
85 90 95

Trp Arg Leu Pro Pro Ser
100

<210> 26
<211> 101
<212> PRT
<213> Artificial sequence

<220>
<223> SBP sequence (SB18)

<400> 26

Met Asp Glu Lys Thr His Cys Ala Val Asn Val Asn Val Gly Leu Thr
1 5 10 15

His Trp Cys His Arg Val Ala His Leu Gln Pro Leu Asp Pro His Pro
20 25 30

Gln Gly Asp His Leu Arg Leu Glu Pro Leu Gly His Ala Leu Val Asp
35 40 45

Pro Leu Val Gln Gly Val Glu Glu Val Val Arg Pro Leu Gln Leu Asp
50 55 60

Val Gly Val Gln Arg Val Ala Leu Val Glu Gln Val Ala Glu Val Gly
65 70 75 80

Glu Gly Leu Asp His Glu Ala Gly Gln Ala His Gly Ala Leu Val Trp
85 90 95

Arg Leu Pro Pro Ser
100

<210> 27
<211> 101
<212> PRT
<213> Artificial sequence

<220>
<223> SBP sequence (SB19)

<400> 27

Met Asp Glu Lys Thr Thr Gly Trp Arg Gly Gly His Val Val Glu Gly
1 5 10 15

SEQUENCE_Stratagene-2462.txt

Leu Ala Gly Glu Leu Glu Gln Leu Arg Ala Arg Leu Glu His His Pro
20 25 30

Gln Gly Gln Arg Glu Pro Leu Val Gln Glu Val Glu Asp Val Asp Glu
35 40 45

Gly Leu Val Gln Asp Leu His Gly Val Val Ala Gly Leu Leu Asp Pro
50 55 60

Val Glu Lys Leu Leu Thr Asp Trp Phe Lys Lys Phe Lys Asn Val Ser
65 70 75 80

Lys Asp Cys Lys Met Thr Phe Tyr Leu Glu Met Tyr Asp Trp Ser Gly
85 90 95

Gly Cys His His His
100

<210> 28

<211> 102

<212> PRT

<213> Artificial sequence

<220>

<223> SBP sequence (SB20)

<400> 28

Met Asn Glu Lys Thr His Cys Lys Leu Asn Phe Lys Val Asn Ile Ala
1 5 10 15

Asp Trp Leu Ala Glu Phe His Gly Gly Gln Gly Leu Leu Gly Arg
20 25 30

Arg Asp Gly Val Val Gln Arg Leu Val Asp Gly Val Gln Glu Arg Val
35 40 45

Glu Arg Leu Asp Arg Asp Pro Gly Leu Gly Asp Leu Arg Leu Glu Leu
50 55 60

His His Arg Asp His Arg Leu Arg Leu Gly Gly Glu His Leu Leu Arg
65 70 75 80

Asp His Pro Leu Glu Pro Asp Asp His Leu Val Val Gly Gly Leu Val
85 90 95

Trp Arg Leu Pro Pro Ser
100

SEQUENCE_Stratagene-2462.txt

<210> 29
<211> 4531
<212> DNA
<213> Artificial sequence

<220>
<223> Expression vector comprising nucleic acids encoding CBP and SBP affinity tags

<400> 29
atgcattagt tattaatagt aatcaattac ggggtcatta gttcatagcc catatatgga 60
gttccgcgtt acataactta cgtaaatgg cccgcctggc tgaccgccc acgaccccc 120
cccattgacg tcaataatga cgtatgttcc catagtaacg ccaataggga ctttccattg 180
acgtcaatgg gtggagtatt tacggtaaac tgcccacttg gcagtgatc aagtgtatca 240
tatgccaagt acgcccccta ttgacgtcaa tgacggtaaa tggccgcct ggcattatgc 300
ccagtgatc accttatggg actttcctac ttggcagtagc atctacgtat tagtcatcgc 360
tattaccatg gtgatgcgtt tttggcagta catcaatggg cgtggatagc ggtttgactc 420
acggggattt ccaagtctcc accccattga cgtcaatggg agtttgtttt ggcaccaaaa 480
tcaacgggac tttccaaaat gtcgtaacaa ctccgcctt ttgacgcaaa tgggcggtag 540
gcgtgtacgg tggaggtct atataagcag agctggttt gtgaaccgtc agatccgcta 600
gcatgtacgc caagctcgaa attaaccctc actaaaggga acaaagctg gagtccacc 660
gcggtgtgcgg ccgccaccat gaagcgacga tggaaaaaga atttcatagc cgtctcagca 720
gccaaccgct ttaagaaaat ctcatcctcc ggggcacttg gaagcggtag cggtaaccatg 780
gacgagaaga ccaccggctg gcggggcggc cacgtggtgg agggcctggc cggcgagctg 840
gagcagctgc gggccaggct ggagcaccac cctcagggcc agcgggagcc ctccggcggc 900
tgcaagctgg gctgcccggg cggatcccc gggctgcagg aattcgatat caagcttattc 960
gataccgtcg acctcgaggg ggggcccggt accttaatta attaaggtagc caggtaaatg 1020
tacccaaattc gccctatagt gagtcgtatt acaattcact cgatcgccct tcccaacagt 1080
tgcgcagcct gaatggcgaa tggagatcca attttaagt gtataatgtg taaaactact 1140
gattctaatt gtttgttat ttttagattca cagtccttca gctcatttca ggcccctcag 1200
tcctcacagt ctgttcatga tcataatcag ccataccaca ttttagagg ttttacttgc 1260
tttaaaaaac ctccccacacc tccccctgaa cctgaaacat aaaatgaatg caattgttgc 1320
tgttaacttg tttattgcag ctataatgg ttacaataaa agcaatagca tcacaaattt 1380
cacaataaa gcattttttt cactgcattc tagttgtggt ttgtccaaac tcatcaatgt 1440
atcttaacgc gttaattgtt agcgttaata ttttggtaaa attcgcgtt aatttttgtt 1500
aaatcagctc attttttaac caataggccg aaatcgccaa aatcccttat aaatcaaaaag 1560

SEQUENCE_Stratagene-2462.txt

aatagaccga	gatagggttg	agtgttggc	cagttggaa	caagagtcca	ctattaaaga	1620
acgtggactc	caacgtcaaa	gggcgaaaaa	ccgtctatca	gggcgatggc	ccactacgtg	1680
aaccatcacc	ctaatacgat	tttttgggt	cgaggtgccg	taaagcacta	aatcggaaacc	1740
ctaaaggag	cccccgattt	agagcttgc	ggggaaagcc	ggcgaacgtg	gcgagaaagg	1800
aaggaaagaa	agcgaaagga	gcgggchgta	gggcgctggc	aagtgttagcg	gtcacgctgc	1860
gcgttaaccac	cacaccgccc	gchgcttaatg	cgccgctaca	gggcgctgca	ggtggcactt	1920
ttcggggaaa	tgtgcgcgga	acccttattt	gtttatttt	ctaaatacat	tcaaataatgt	1980
atccgctcat	gagacaataa	ccctgataaa	tgcttcataa	atattgaaaa	aggaagaatc	2040
ctgaggcgga	aagaaccagc	tgtggaatgt	gtgtcagtt	gggtgtggaa	agtccccagg	2100
ctccccagca	ggcagaagta	tgcaaagcat	gcatctcaat	tagtcagcaa	ccaggtgtgg	2160
aaagtccccca	ggctccccag	caggcagaag	tatgcaaagc	atgcatctca	attagtcagc	2220
aaccatagtc	ccgccccctaa	ctccgccccat	ccgcggccctaa	actccgccccaa	gttccgccccaa	2280
ttctccgccc	catggctgac	taattttttt	tatttatgca	gaggccgagg	ccgcctcgcc	2340
ctctgagcta	ttccagaagt	agtgaggagg	ctttttggaa	ggcctaggct	tttgcaaaga	2400
tcgatcaaga	gacaggatga	ggatcggttc	gcatgattga	acaagatgga	ttgcacgcag	2460
gttctccggc	cgcttgggtg	gagaggctat	tcggctatga	ctgggcacaa	cagacaatcg	2520
gctgctctga	tgccgcccgt	ttccggctgt	cagcgcagg	gcccgggtt	ctttttgtca	2580
agaccgacct	gtccgggtgcc	ctgaatgaac	tgcaagacga	ggcagcgcgg	ctatcggtgc	2640
tggccacgac	ggcggttcct	tgcgcagctg	tgctcgacgt	tgtcaactgaa	gcgggaaggg	2700
actggctgct	attgggcgaa	gtgcggggc	aggatctcct	gtcatctcac	cttgcctcctg	2760
ccgagaaagt	atccatcatg	gctgatgcaa	tgcggcggct	gcatacgctt	gatccggcta	2820
cctgcccatt	cgaccaccaa	gcgaaacatc	gcatcgagcg	agcacgtact	cggatggaag	2880
ccggctttgt	cgatcaggat	gatctggacg	aagaacatca	ggggctcgcg	ccagccgaac	2940
tgttcgcccag	gctcaaggcg	agcatgccc	acggcgagga	tctcgctgt	acccatggcg	3000
atgcctgctt	gccgaatatc	atggggaaa	atggccgctt	ttctggattc	atcgactgtg	3060
gccggctggg	tgtggcggac	cgctatcagg	acatagcgtt	ggctacccgt	gatattgctg	3120
aagaacttgg	cggcgaatgg	gctgaccgct	tcctcgct	ttacggtac	gccgctcccg	3180
attcgcagcg	catcgcccttc	tatcgcccttc	ttgacgagtt	cttctgagcg	ggactctggg	3240
gttcgaaatg	accgaccaag	cgacgccccaa	cctgccccatca	cgagatttcg	attccaccgc	3300
cgccttctat	gaaagggttgg	gcttcggaaat	cgttttccgg	gacgccccgt	ggatgatcct	3360
ccagcgcggg	gatctcatgc	tggagttctt	cgccccaccct	agggggagggc	taactgaaac	3420
acggaaggag	acaataccgg	aaggaaacccg	cgctatgacg	gcaataaaaaa	gacagaataa	3480

SEQUENCE_Stratagene-2462.txt

aacgcacggt	gttgggtcgt	ttgttcataa	acgcggggtt	cggtcccagg	gctggcactc	3540
tgtcgatacc	ccaccgagac	cccattgggg	ccaatacgcc	cgcgttctt	cctttcccc	3600
accccacccc	ccaagttcg	gtgaaggccc	agggctcgca	gccaacgtcg	gggcggcagg	3660
ccctgccata	gcctcaggtt	actcatatat	acttttagatt	gattaaaac	ttcattttta	3720
atttaaaagg	atcttaggtga	agatcctttt	tgataatctc	atgacaaaaa	tcccttaacg	3780
tgagtttcg	ttccactgag	cgtcagaccc	cgtagaaaaag	atcaaaggat	cttcttgaga	3840
tcctttttt	ctgcgcgtaa	tctgctgctt	gcaaacaaaa	aaaccaccgc	taccagcgg	3900
ggtttgggg	ccggatcaag	agctaccaac	tcttttccg	aaggtaactg	gcttcagcag	3960
agcgcagata	ccaaataactg	tccttctagt	gtagccgtag	ttaggcccacc	acttcaagaa	4020
ctctgttagca	ccgcctacat	acctcgctct	gctaattctg	ttaccagtgg	ctgctgccag	4080
tggcgataag	tcgtgtctta	ccggggttgg	ctcaagacga	tagttaccgg	ataaggcgca	4140
gcggtcgggc	tgaacgggggg	gttcgtgcac	acagcccagc	ttggagcgaa	cgacctacac	4200
cgaactgaga	tacctacagc	gtgagctatg	agaaagcgcc	acgcttcccg	aagggagaaaa	4260
ggcggacagg	tatccggtaa	gcggcagggt	cggAACAGGA	gagcgcacga	gggagcttcc	4320
agggggaaac	gcctggtatac	tttatagtcc	tgtcggtttt	cgccacctct	gacttgagcg	4380
tcgattttt	tgtatgctcg	cagggggcgc	gagcctatgg	aaaaacgcca	gcaacgcggc	4440
cttttacgg	ttcctggcct	tttgctggcc	tttgctcac	atgttcttc	ctgcgttatac	4500
ccctgattct	gtggataacc	gtattaccgc	c			4531

<210> 30

<211> 4533

<212> DNA

<213> Artificial sequence

<220>

<223> Expression vector comprising nucleic acids encoding CBP and SBP affinity tags

<400> 30

atgcatttagt	tattaatagt	aatcaattac	ggggtcatta	gttcatagcc	catatatgg	60
gttccgcgtt	acataactta	cgttaaatgg	ccgcctggc	tgaccgccc	acgacccccc	120
cccattgacg	tcaataatga	cgtatgttcc	catagtaacg	ccaataggga	ctttccattg	180
acgtcaatgg	gtggagtatt	tacggtaaac	tgcccacttg	gcagtagatc	aagtgtatca	240
tatgccaagt	acgcccccta	ttgacgtcaa	tgacggtaaa	tggccgcct	ggcattatgc	300
ccagtagatg	accttatggg	actttcctac	ttggcagtagc	atctacgtat	tagtcatcgc	360
tattaccatg	gtgatgcgg	tttggcagta	catcaatggg	cgtggatagc	ggtttgactc	420
acggggattt	ccaagtctcc	accccattga	cgtcaatggg	agtttggttt	ggcaccaaaa	480

SEQUENCE_Stratagene-2462.txt

tcaacgggac	tttccaaaat	gtcgtaacaa	ctccgcccc	ttgacgcaaa	tgggcggtag	540
gcgtgtacgg	tgggaggtct	atataagcag	agctggttt	gtgaaccgtc	agatccgcta	600
gcgattacgc	caagctcgaa	attaaccctc	actaaaggga	acaaaagctg	gagctccacc	660
gcggtgtggcg	ccgctctagc	ccgggcccgt	ccccgggct	gcaggaattc	gatatcaagc	720
ttatcgatac	cgtcgacact	cgagggaaagc	ggtagcggta	ccatggacga	gaagaccacc	780
ggctggcggg	gcggccacgt	ggtggagggc	ctggccggcg	agctggagca	gctgcgggcc	840
aggctggagc	accaccctca	gggccagcgg	gagccctccg	gcggctgcaa	gctgggctcc	900
ggaaagcgac	gatggaaaaaa	gaatttcata	gccgtctcag	cagccaaccg	ctttaagaaa	960
atctcatcct	ccggggcact	ttagggccc	gtaccttaat	taattaaggt	accaggttaag	1020
tgtacccaat	tcgcccata	gtgagtgc	ttacaattca	ctcgatcgcc	cttcccaaca	1080
gttgcgcagc	ctgaatggcg	aatggagatc	caattttaa	gtgtataatg	tgttaaacta	1140
ctgattctaa	ttgtttgtgt	attttagatt	cacagtccc	aggctcattt	caggcccctc	1200
agtccctaca	gtctgttcat	gatcataatc	agccatacca	cattgtaga	ggttttactt	1260
gctttaaaaaa	acctcccaca	cctccccctg	aacctgaaac	ataaaatgaa	tgcaattgtt	1320
gttgttaact	tgtttattgc	agttataat	ggttacaaat	aaagcaatag	catcacaaat	1380
ttcacaaaata	aagcattttt	ttcactgcat	tctagttgt	gtttgtccaa	actcatcaat	1440
gtatcttaac	gcgtaaattt	taagcgtta	tatttgtt	aaattcgcgt	taaattttt	1500
ttaaatcagc	tcattttta	accaataggc	cgaaatcg	aaaatccctt	ataaatcaaa	1560
agaatagacc	gagatagggt	tgagtgtt	tccagttgg	aacaagagtc	cactattaaa	1620
gaacgtggac	tccaacgtca	aagggcgaaa	aaccgtctat	cagggcgatg	gcccaactacg	1680
tgaaccatca	ccctaata	gtttttggg	gtcgagg	cgtaaagcac	taaatcgaa	1740
ccctaaaggg	agcccccgat	ttagagctt	acggggaaag	ccggcgaacg	tggcgagaaa	1800
ggaagggaaag	aaagcgaaag	gagcgggcgc	tagggcgct	gcaagtgtag	cggcacgct	1860
gcgcgttaacc	accacaccc	ccgcgtt	tgcgccgct	cagggcgct	caggtggcac	1920
tttcgggaa	aatgtgc	gaaccctat	ttgtttattt	ttctaaatac	attcaatata	1980
gtatccgctc	atgagacaat	aaccctgata	aatgcttca	taatattgaa	aaaggaagaa	2040
tcctgaggcg	gaaagaacca	gctgtggat	gtgtgtcagt	taggtgtgg	aaagtcccc	2100
ggctccccag	caggcagaag	tatgcaaagc	atgcata	attagtca	aaccagggt	2160
ggaaagtccc	caggctcccc	agcaggcaga	agtatgcaa	gcatgcata	caattagtca	2220
gcaaccatag	tcccggccct	aactccgccc	atccgcccc	taactccgccc	cagttccgccc	2280
cattctccgc	cccatggctg	actaattttt	tttatttat	cagaggccga	ggccgcctcg	2340

SEQUENCE_Stratagene-2462.txt

gcctctgagc tattccagaa gtagtgagga ggcttttg gaggcctagg ctttgc当地	2400
gatcgatcaa gagacaggat gaggatcggt tcgcattgatt gaacaagatg gattgc当地	2460
aggttctccg gccgcttggg tggagaggct attcggtat gactggcac aacagacaat	2520
cggctgctct gatgccgccc tgccggct gtcagcgc当地 gggcgccc当地 ttctttgt	2580
caagaccgac ctgtccgggt ccctgaatga actgcaagac gaggcagc当地 ggctatc当地	2640
gctggccacg acgggc当地 cttgc当地 cagc tgc当地 cactg aagc当地 aag	2700
ggactggctg ctattggcg aagtgc当地 ggccaggatctc ctgtcatctc acctt当地	2760
tgc当地 gagaaa gtatccatca tggctgatgc aatgc当地 ggcc ctgc当地 atc当地 ttgatcc当地	2820
tacctgccc当地 ttc当地 accacc aagc当地 aaca tc当地 catcgag cgagc当地 gta ctc当地 ggatg当地 ggaa	2880
agccggctt gtc当地 atcagg atgatctgga cgaagaacat cagggctg cgccagcc当地	2940
actgtt当地 ccc aggctcaagg cgagcatgccc cgacggcgag gatctc当地 tgacccatgg	3000
cgatgc当地 ctgc ttgccc当地 ata tcatggt当地 aaatggcc当地 ttttctggat tcatcgactg	3060
tggccggctg ggtgtggcg accgctatca ggacatagcg ttggctaccc gtgatattgc	3120
tgaagaactt ggc当地 gcaat gggctgaccg cttc当地 ctg当地 cttacggta tc当地 cc当地 ctcc	3180
cgattc当地 cgag ccatcgcc tctatcgcc tcttgc当地 agt ttctctgag cgggactctg	3240
gggttc当地 aaa tgaccgacca agc当地 acgccc aacctgccat cacgagattt cgattccacc	3300
gccgc当地 ttct atgaaaggtt gggctt当地 atcgtt当地 ccc gggacgccc当地 ctggatgatc	3360
ctccagc当地 cg gggatctcat gctggagttc tt当地 cccacc ctagggggag gctaactgaa	3420
acacgg当地 agg agacaatacc ggaaggaaacc cgcgctatga cggcaataaa aagacagaat	3480
aaaacgc当地 acg gtgtt当地 ggtt当地 cat aaacgc当地 ggggg ttc当地 ggtt当地 ccc ggc当地	3540
tctgtc当地 gata cccaccgag accccattgg ggccaatacg cccgc当地 tt当地 ctttcc	3600
ccacccacc ccccaagttc gggtaaggc ccaggc当地 tgc当地 cagccaaacgt cggggc当地 ggca	3660
ggccctgcca tagc当地 cagg ttactcatat atactt当地 tag ttgat当地 taaa actt当地 cattt	3720
taattt当地 aaa ggatcttaggt gaagatc当地 tt当地 gataatc tcatgaccaa aatccctt当地 aa	3780
cgtgagttt cgttccactg agc当地 gtccagac cccgtagaaa agatcaaagg atctt当地 ctgatc	3840
gatcc当地 tttt ttctgc当地 cgt aatctgctg cttgcaacaa aaaaaccacc gctaccagc当地	3900
gtggttt当地 tt tgccggatca agagctacca actctt当地 tt cgaaggtaac tggctt当地 cagc	3960
agagc当地 gc当地 aga tccaaatac tgc当地 ttctta gtgttagccgt agttaggcca ccacttcaag	4020
aactctgtag caccgc当地 ctac atacctcgct ctgctaatcc tgc当地 ttaccagg ggctgctgccc	4080
agtggcgata agtc当地 gtct taccgggtt当地 gactcaagac gatagttacc ggataaggcg	4140
cagc当地 ggtc当地 gg gctgaacggg gggttc当地 gtgc acacagccca gcttggagcg aacgacccatc	4200
accgaactga gatacctaca gc当地 gtgagcta tgagaaagcg ccacgcttcc cgaagggaga	4260

SEQUENCE_Stratagene-2462.txt

aaggcggaca ggtatccggt aagcggcagg gtcggaacag gagagcgcac gagggagctt	4320
ccagggggaa acgcctggta tctttatagt cctgtcggtt ttcgccacct ctgacttgag	4380
cgtcgatttt tgtgatgctc gtcagggggg cgagcctat ggaaaaacgc cagcaacgcg	4440
gccttttac ggttcctggc ctttgctgg cttttgctc acatgttctt tcctgcgtta	4500
tcccctgatt ctgtggataa ccgtattacc gcc	4533

<210> 31

<211> 4324

<212> DNA

<213> Artificial sequence

<220>

<223> Expression vector for expression of a "target" binding partner

<400> 31	
atgcattagt tattaatagt aatcaattac ggggtcatta gttcatagcc catatatgga	60
gttccgcgtt acataactta cggtaaatgg cccgcctggc tgaccgccc acgacccccg	120
cccattgacg tcaataatga cgtatgttcc catagtaacg ccaataggga ctttccattg	180
acgtcaatgg gtggagtatt tacggtaaac tgcccacttg gcagtacatc aagtgtatca	240
tatgccaagt acgcccccta ttgacgtcaa tgacggtaaa tggccgcct ggcattatgc	300
ccagtagatg accttatggg actttcctac ttggcagtagc atctacgtat tagtcatcgc	360
tattaccatg gtgatgcggt tttggcagta catcaatggg cgtggatagc ggtttgactc	420
acggggattt ccaagtctcc accccattga cgtcaatggg agtttgttt ggcaccaaaa	480
tcaacgggac tttccaaaat gtcgtaacaa ctccgccttca ttgacgcaaa tgggcggtag	540
gcgtgtacgg tgggaggtct atataagcag agctggttt gtgaaccgtc agatccgcta	600
gcgattacgc caagctcgaa attaaccctc actaaaggga acaaaagctg gagctccacc	660
gcgggtggcgg ccgccaccat ggattacaag gatgacgacg ataagagccc gggcggatcc	720
cccggtctgc aggaattcga tatcaagctt atcgataccg tcgacctcga gggggggccc	780
ggtaccttaa ttaattaagg taccaggtaa gtgtacccaa ttcgcctat agtgagtcgt	840
attacaattc actcgatcgc cttcccaac agttgcgcag cctgaatggc gaatggagat	900
ccaattttta agtgtataat gtgttaact actgattcta attgtttgtg tatttttagat	960
tcacagtccc aaggctcatt tcaggccct cagtcctcac agtctgttca tgatcataat	1020
cagccatacc acattttag aggtttact tgctttaaaa aacctccac acctccccct	1080
gaacctgaaa cataaaatga atgcaattgt tgggttaac ttgtttattg cagcttataa	1140
tggttacaaa taaagcaata gcatcacaaa tttcacaaat aaagcattt tttcactgca	1200
ttcttagttgt ggtttgtcca aactcatcaa tgtatcttaa cgcgtaaatt gtaagcgtta	1260

SEQUENCE_Stratagene-2462.txt

atattttgtt	aaaattcgcg	ttaaatttt	gttaaatcag	ctcattttt	aaccaatagg	1320
ccgaaatcg	caaaatccct	tataaatcaa	aagaatagac	cgagataggg	ttgagtgtt	1380
ttccagttt	gaacaagagt	ccactattaa	agaacgtgga	ctccaacgtc	aaagggcgaa	1440
aaaccgtcta	tcagggcgat	ggcccactac	gtgaaccatc	accctaata	agtttttgg	1500
ggtcgaggt	ccgtaaagca	ctaaatcgga	accctaaagg	gagccccga	tttagagctt	1560
gacggggaaa	gccggcgaac	gtggcgagaa	aggaaggaa	gaaagcgaaa	ggagcggcg	1620
ctagggcgct	ggcaagtgt	gcccccacgc	tgcgcgtaac	caccacaccc	gccccgccta	1680
atgcggcgct	acagggcg	tcaggtggca	ctttcgggg	aatgtgcgc	ggaaccccta	1740
tttgtttatt	tttctaaata	cattcaaata	tgtatccct	catgagacaa	taaccctgat	1800
aaatgcttca	ataatattga	aaaaggaaga	atcctgaggc	ggaaagaacc	agctgtggaa	1860
tgtgttcag	ttagggtgt	gaaagtcccc	aggctcccc	gcaggcagaa	gtatgcaaag	1920
catgcacatc	aattagtcag	caaccagg	tggaaagtcc	ccaggctccc	cagcaggcag	1980
aagtatgcaa	agcatgcac	tcaattagtc	agcaaccata	gtcccgcccc	taactccgccc	2040
catcccgccc	ctaactccgc	ccagttccgc	ccattctccg	ccccatggct	gactaatttt	2100
ttttatattat	gcagaggccg	aggccgcctc	ggcctctgag	ctattccaga	agtagtgagg	2160
aggctttttt	ggaggcctag	gttttgcaa	agatcgatca	agagacagga	tgaggatcgt	2220
ttcgcatgat	tgaacaagat	ggattgcac	caggttctcc	ggccgcttgg	gtggagaggc	2280
tattccgcta	tgactggca	caacagacaa	tcggctgctc	tgtatccgc	gtgttccggc	2340
tgtcagcgca	ggggcgcccc	gttctttt	tcaagaccga	cctgtccgg	gccctgaatg	2400
aactgcaaga	cgaggcagcg	cggctatcgt	ggctggccac	gacgggcgtt	ccttgcgcag	2460
ctgtgctcga	cgttgtcact	gaagcggaa	gggactggct	gctattggc	gaagtgcgg	2520
ggcaggatct	cctgtcatct	cacccgtc	ctgcccggaa	agtatccatc	atggctgatg	2580
caatgcggcg	gctgcatacg	cttgcatacg	ctacccccc	attcgaccac	caagcgaaac	2640
atcgcatcga	gcgagcacgt	actcgatgg	aagccggct	tgtcgatcag	gatgatctgg	2700
acgaagaaca	tcaggggctc	gcccggccg	aactgttcgc	caggctcaag	gcgagcatgc	2760
ccgacggcga	ggatctcg	gtgacccatg	gcatgcctg	cttgcgaat	atcatggtgg	2820
aaaatggccg	ctttctgga	ttcatcgact	gtggccggct	gggtgtggcg	gaccgctatc	2880
aggacatagc	gttggctacc	cgtgatattg	ctgaagaact	tggcggcgaa	tgggctgacc	2940
gcttcctcg	gtttacgg	atcgccgctc	ccgattcgca	gcatgcgc	ttctatcgcc	3000
ttcttgacga	gttcttctga	gcgggactct	ggggttcgaa	atgaccgacc	aagcgacgcc	3060
caacctgcca	tcacgagatt	tcgattccac	cgccgccttc	tatgaaaggt	tgggcttcgg	3120
aatcgtttc	cgggacgccc	gctggatgat	cctccagcgc	ggggatctca	tgctggagtt	3180

SEQUENCE_Stratagene-2462.txt

cttcgcccac	cctaggggga	ggctaactga	aacacggaag	gagacaatac	cggaaggaac	3240
ccgcgtatg	acggcaataa	aaagacagaa	taaaacgcac	ggtgttgggt	cgtttgtca	3300
taaacgcggg	gttcggtccc	agggctggca	ctctgtcgat	accccaccga	gaccccattg	3360
ggccaatac	gcccgcgttt	tttcctttc	cccacccac	cccccaagtt	cgggtgaagg	3420
cccagggctc	gcagccaacg	tcggggcggc	aggccctgcc	atagcctcag	gttactcata	3480
tatactttag	attgatttaa	aacttcattt	ttaatttaaa	aggatctagg	tgaagatcct	3540
ttttgataat	ctcatgacca	aaatccctta	acgtgagttt	tcgttccact	gagcgtcaga	3600
ccccgtagaa	aagatcaaag	gatcttctt	agatcctttt	tttctgcgcg	taatctgctg	3660
cttgcaaaca	aaaaaaccac	cgctaccagc	ggtggtttgt	ttgccggatc	aagagctacc	3720
aactctttt	ccgaaggtaa	ctggcttcag	cagagcgcag	ataccaaata	ctgtccttct	3780
agttagccg	tagttaggcc	accactcaa	gaactctgta	gcaccgccta	catacctcgc	3840
tctgctaatc	ctgttaccag	tggctgctgc	cagtggcgat	aagtcgtgtc	ttaccgggtt	3900
ggactcaaga	cgatagttac	cggataaggc	gcagcggtcg	ggctgaacgg	ggggttcgtg	3960
cacacagccc	agcttggagc	gaacgaccta	caccgaactg	agataacctac	agcgtgagct	4020
atgagaaaagc	gccacgcttc	ccgaagggag	aaaggcggac	aggatatccgg	taagcggcag	4080
ggtcggaaca	ggagagcgc	cgagggagct	tccaggggg	aacgcctgg	atctttatag	4140
tcctgtcggg	tttcgccacc	tctgactga	gcgtcgattt	ttgtgtatgc	cgtcaggggg	4200
gcggagccta	tggaaaaacg	ccagcaacgc	ggcctttta	cggccctgg	cctttgctg	4260
gcctttgct	cacatgttct	ttcctgcgtt	atcccctgat	tctgtggata	accgtattac	4320
cgcc						4324

<210> 32
<211> 4320
<212> DNA
<213> Artificial sequence

<220>
<223> Expression vector for expression of a "target" binding partner

<400> 32	atgcattagt	tattaatagt	aatcaattac	gggtcatta	gttcatagcc	catatatgga	60
	gttccgcgtt	acataactta	cgttaaatgg	ccgcctggc	tgaccgccc	acgacccccc	120
	cccatggacg	tcaataatga	cgtatgttcc	catacta	ccaataggga	ctttccattg	180
	acgtcaatgg	gtggagtatt	tacggtaaac	tgcccactt	gcagtacatc	aagtgtatca	240
	tatgccaagt	acgcccccta	ttgacgtcaa	tgacggtaaa	tggccgcct	ggcattatgc	300
	ccagtacatg	accttatggg	acttcctac	ttggcagtac	atctacgtat	tagtcatcgc	360

SEQUENCE_Stratagene-2462.txt

tattaccatg	gtgatgcggt	tttggcagta	catcaatggg	cgtggatagc	ggtttgactc	420
acggggattt	ccaagtctcc	accccattga	cgtcaatggg	agtttgtttt	ggcaccaaaa	480
tcaacgggac	tttccaaaat	gtcgtaacaa	ctccgcccc	ttgacgcaaa	tgggcggtag	540
gcgtgtacgg	tgggaggtct	atataagcag	agctggttt	gtgaaccgtc	agatccgcta	600
gcgattacgc	caagctcgaa	attaaccctc	actaaaggga	acaaaagctg	gagctccacc	660
gcggtgtggcg	ccgctctagc	ccggcggtat	ccccgggct	gcaggaattc	gatatcaagc	720
ttatcgatac	cgtcgacact	cgaggattac	aaggatgacg	acgataagta	gggccccgt	780
ccttaattaa	ttaaggtacc	aggttaagtgt	acccaattcg	ccctatagtg	agtcgttatta	840
caattcactc	gatcgccctt	cccaacagtt	gcgcagcctg	aatggcgaat	ggagatccaa	900
tttttaagtg	tataatgtgt	taaactactg	attctaattg	tttgtgtatt	ttagattcac	960
agtcccaagg	ctcatttcag	gcccccagt	cctcacagtc	tgttcatgt	cataatcagc	1020
cataccacat	ttgttagaggt	tttacttgct	ttaaaaaacc	tcccacacct	ccccctgaac	1080
ctgaaacata	aatgaatgc	aattgttgtt	gttaacttgc	ttattgcagc	ttataatggt	1140
tacaataaa	gcaatagcat	cacaatttc	acaaataaag	cattttttc	actgcattct	1200
agttgtggtt	tgtccaaact	catcaatgta	tcttaacgctg	taaattgtaa	gcgttaatat	1260
tttgttaaaa	ttcgcgttaa	attttgtta	aatcagctca	tttttaacc	aataggccga	1320
aatcggcaaa	atcccttata	aatcaaaaga	atagaccgag	atagggttga	gtgtgttcc	1380
agtttggAAC	aagagtccac	tattaaagaa	cgtggactcc	aacgtcaaag	ggcggaaaaac	1440
cgtctatcag	ggcgatggcc	cactacgtga	accatcaccc	taatcaagtt	ttttgggtc	1500
gaggtgccgt	aaagcactaa	atcggAACCC	taaagggagc	ccccgattt	gagcttgacg	1560
gggaaagccg	gcgaacgtgg	cgagaaagga	agggaaagaaa	gcgaaaggag	cgggcgttag	1620
ggcgctggca	agtgttagcgg	tcacgctcg	cgtaaccacc	acacccgccc	cgcttaatgc	1680
gccgctacag	ggcgctcag	gtggacttt	tcggggaaat	gtgcgcggaa	cccctatttgc	1740
tttatTTTC	taaatacatt	caaatatgta	tccgctcatg	agacaataac	cctgataaat	1800
gcttcaataa	tattgaaaaaa	ggaagaatcc	tgaggcggaa	agaaccagct	gtggaatgtg	1860
tgtcagttag	ggtgtggaaa	gtccccaggc	tccccagcag	gcagaagtat	gcaaagcatg	1920
catctcaatt	agtcagcaac	caggtgtgga	aagtccccag	gctccccagc	aggcagaagt	1980
atgcaaagca	tgcatactcaa	ttagtcagca	accatagtcc	cgcccctaac	tccgcccattc	2040
ccgccccctaa	ctccgcccag	ttccgccccat	tctccgcccc	atggctgact	aattttttt	2100
atttatgcag	aggccgagggc	cgcctcgccc	tctgagctat	tccagaagta	gtgaggaggc	2160
ttttttggag	gcctaggctt	ttgcaaagat	cgtcaagag	acaggatgag	gatcgttcgt	2220
catgattgaa	caagatggat	tgcacgcagg	ttctccggcc	gcttgggtgg	agaggctatt	2280

SEQUENCE_Stratagene-2462.txt

cggttatgac	tgggcacaac	agacaatcg	ctgctctgat	gccgccgtgt	tccggctgtc	2340
agcgcaaaaa	cgcgggttc	ttttgtcaa	gaccgacctg	tccggtgccc	tgaatgaact	2400
gcaagacgag	gcagcgcggc	tatcggtgg	ggccacgacg	ggcggtccctt	gcgcagctgt	2460
gctcgacgtt	gtcactgaag	cggaaaggga	ctggctgcta	ttgggcgaag	tgccggggca	2520
ggatctcctg	tcatctcacc	ttgctcctgc	cgagaaagta	tccatcatgg	ctgatgcaat	2580
gcggcggctg	catacgctt	atccggctac	ctgcccattc	gaccaccaag	cgaaacatcg	2640
catcgagcga	gcacgtactc	ggatggaagc	cggcttg	gatcaggatg	atctggacga	2700
agaacatcg	gggctcg	cagccgaact	gttcgcccagg	ctcaaggcga	gcatgcccga	2760
cggtgaggat	ctcg	ccatggcga	tgcc	ccgaatatca	tggggaaaa	2820
tggccgctt	tctggattca	tcgactgtgg	ccggctgggt	gtggcggacc	gctatcagga	2880
catagcg	gttacccgt	atattgctga	agaacttggc	ggcgaatggg	ctgaccgctt	2940
cctcg	tacggtatcg	ccgctcccga	ttcg	atcg	atcg	3000
tgacgagt	ttctgagcgg	gactctgggg	ttcgaaatga	ccgaccaagc	gacgcccAAC	3060
ctgccc	catcac	gagattcga	ttccaccg	gccttctatg	aaagg	3120
gtttccggg	acgcccgt	gatgatc	cagcgcgggg	atctcatgt	ggagttcttc	3180
gcccacc	cta	gggggagg	aactgaaaca	cggaaggaga	caataccgga	3240
gctatgacgg	caataaaa	acagaataaa	acgcacgg	ttgggtcg	tgttca	3300
cgcgggttc	gttcc	cagg	ctggcact	gtcgata	cccgagacc	3360
caatacgccc	gcgtt	ccca	ccccaccc	caagttcg	tgaaggccca	3420
gggctcg	cag	ccaacgt	ggcggcagg	cctg	cctcagg	3480
cttttagatt	gtt	ttttaa	ttt	ttt	ttt	3540
gataatctca	tgac	aaaaat	ccctt	aaat	gggt	3600
gtagaaaaga	tcaaagg	atc	ttctt	gagat	ctgt	3660
caaacaaaaa	aaccacc	gct	accagcgg	gtt	tttgc	3720
cttttccga	aggtaact	gg	ttcagc	g	caaaactgt	3780
tagccgt	tag	gacca	ttc	atgac	cctcg	3840
ctaattcct	tacc	gtgg	tct	gtcc	ct	3900
tcaagac	agttac	cg	ggc	ata	cg	3960
cagccc	ag	taagg	cg	ggc	gggttgg	4020
gaaagcg	ac	gac	ttt	ggac	ac	4080
ggaacagg	agg	gac	gg	ggaa	ac	4140

SEQUENCE_Stratagene-2462.txt

gtcgggtttc gccacctcg acttgagcgt cgattttgt gatgctcgtc agggggcg	4200
agcctatgga aaaacgccag caacgcggcc ttttacggt tcctggcctt ttgctggcct	4260
tttgctcaca tgtttttcc tgcgttatcc cctgattctg tggataaccg tattaccgcc	4320